

Title (en)

PARTICLE CHARACTERIZATION USING OPTICAL MICROSCOPY

Title (de)

TEILCHENCHARAKTERISIERUNG MITTELS OPTISCHER MIKROSKOPIE

Title (fr)

CARACTÉRISATION DE PARTICULES PAR MICROSCOPIE OPTIQUE

Publication

EP 3884424 A2 20210929 (EN)

Application

EP 19809897 A 20191122

Priority

- GB 201819033 A 20181122
- GB 2019053305 W 20191122

Abstract (en)

[origin: WO2020104814A2] A method of optically characterizing individual molecules/molecular complexes, or other particles, in solution. The method comprises flowing a solution comprising the molecules/molecular complexes into an imaging region of a microfluidic channel, wherein the imaging region of the microfluidic channel has a first lateral dimension of greater than 1µm in an x-direction wherein the x-direction is perpendicular to a direction of the flow; capturing a succession of images of the individual molecules/molecular complexes in the imaging region; tracking movement of the individual molecules/molecular complexes in at least the x-direction in the imaging region using the succession of images; and characterizing the individual molecules/molecular complexes from the tracked movement. In some implementations the characterizing comprises determining a diffusion coefficient of the molecules/molecular complexes from the tracked movement.

IPC 8 full level

G06K 9/00 (2006.01); **G01N 33/48** (2006.01); **G06K 9/62** (2006.01); **G07C 9/00** (2020.01)

CPC (source: EP US)

G01N 15/0227 (2013.01 - EP US); **G02B 21/0016** (2013.01 - EP US); **G02B 21/008** (2013.01 - EP US); **G06V 20/695** (2022.01 - EP US); **G01N 2015/0038** (2013.01 - EP); **G01N 2015/0238** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020104814 A2 20200528; **WO 2020104814 A3 20200723**; EP 3884424 A2 20210929; GB 201819033 D0 20190109; US 2022012456 A1 20220113

DOCDB simple family (application)

GB 2019053305 W 20191122; EP 19809897 A 20191122; GB 201819033 A 20181122; US 201917296208 A 20191122